

**TIMBER MARKING INFORMATION:** This timber sale contains fifteen (15) Payment Units with timber designated for cutting. In Payment Units 1, 7, 9, & 12-14, timber is designated for cutting in accordance with contract provision CT2.351#, Designation by Spacing (DxSPA). Only such trees so identified by contract provision CT2.351 are to be cut. In Payment Units 2-6, 10, & 15, trees designated for cutting are Cut Tree Marked (CTM) and are designated with paint marks at eye about eye level and on the stump. Sawtimber trees have two stump spots and small roundwood trees have one stump spot. In Payment Units 8 & 11, trees to be left (Leave Tree Marked, LTM) are designated with an orange painted band at about eye level and a spot on the stump. Potential purchasers should pay special attention to the orange painted unit boundaries. **Unless designated by the Forest Service, trees will not be removed outside these designated boundaries.**

**Cut Trees** in this sale area are designated as indicated below:

<b><u>Type</u></b>	<b><u>Markings</u></b>	<b><u>Payment Unit(s)</u></b>
Cut Trees	Yellow Paint	2, 4, 6, 10
Cut Trees	Blue Paint	3 & 5
Road ROW	Green Paint	15

**Leave Trees** in this sale area are designated as indicated below:

<b><u>Type</u></b>	<b><u>Markings</u></b>	<b><u>Payment Unit(s)</u></b>
Pine Leave Tree (LTM)	Orange Paint	8 & 11

**Cut Tree Marking (CTM):** Payment Units 2-6, 10, & 15 were cruised and volumes estimated utilizing the Sample Tree Measurement method. Sampling intervals for the various products/diameter classes are listed under the Volume and Sampling information table.

**Leave Tree Marked:** In Payment Units 8 and 11, included timber is designated using the Leave Tree Marking (LTM) method. Trees to be **left** are designated with an ORANGE band and stump spot. All other live pine trees meeting minimum merchantability specifications listed in AT2 are included timber and to be removed.

Payment Units 8 and 11 were cruised with a 20 BAF prism using the PCMTRE method. Twenty nine (29) variable radius plots were taken and volume estimated on approximately 156 acres.

**Designation by Spacing (DxSPA):** Payment Units 1, 7, 9, & 12-14 were cruised with a 20 BAF prism using the PCMTRE method. Fifty six (56) variable radius plots were taken and volume estimated on approximately 514 acres. **Any trees designated with Orange Bands were excluded from the cruise and not designated for cutting.** These trees are **NOT** factored into the spacing requirements in CT2.351#, Designation by Spacing. Unit volume listed in AT4c includes timber to be removed for skidding corridors and was calculated by taking seventeen (17) percent of the estimated leave volume.

Prospective bidders should review contract provision CT2.351#, Designation by Spacing, and associated cruise plots for information regarding the trees designated for removal. Outside of the skidding corridors, no tree larger than 12" DBH or 18.0" stump diameter (ground level) shall be cut unless designated by the Forest Service with paint.

The required spacing is a maximum average of seventeen (17) feet, with the largest diameter trees being left.

**VOLUME AND SAMPLING INFORMATION:** Timber volumes are based on cubic foot tree measurement rule. Scribner board foot volumes are listed for informational purposes only so bidders can compare with cubic volume estimates. Sawtimber and pulpwood/topwood volume were determined from tree measurement volume equations for the Sam Houston National Forest. Pine sawtimber on this sale was not graded. The pine sawtimber volume is approximately 94% loblolly and 6% shortleaf.

**VOLUME AND SAMPLING INFORMATION:** The following methods were used to estimate timber volume and data.

		<u>Sample Tree Measurement</u>		<u>100% Tree Measurement</u>
<u>Payment Units</u>	<u>Species/Product</u>	<u>DBH Range Sampled</u>	<u>Sample Interval</u>	<u>DBH Range</u>
1, 7, 9, & 12-14	Pine Pulpwood	5.0" – 10.9"	1 plot per 10 acres	N/A
8 & 11	Pine Pulpwood	5.0" – 10.9"	1 plot per 5.4 acres	N/A
1, 7, 9, & 12-14	Pine Sawtimber	11.0"+	1 plot per 10 acres	N/A
8 & 11	Pine Sawtimber	11.0"+	1 plot per 5.4 acres	N/A
2-6, 10, & 15	Pine Pulpwood	5.0" – 10.9"	1 in 80	11"+
2-6, 10, & 15	Pine Sawtimber	11.0"+	See below	28"+
15	Hardwood Pulpwood	6.0" – 11.9"	1 in 1	6"+
15	Hardwood Sawtimber	12.0"+	1 in 1	12"+
<u>Stratum</u>	<u>Diameter Class (2")</u>	<u>Pine Sawtimber Sample Interval</u>	<u>Hardwood Sawtimber Sample Interval</u>	
12	12" and 14"	1 in 100	100%	
16	16" and 18"	1 in 75	100%	
20	20" and 22"	1 in 50	100%	
24	24" and 26"	1 in 20	100%	
28	28"+	100%	100%	

**Access to all of the Sale Units is behind combination locked gates on NFSRs 213, 213 A, 2012, 2113, and 206 A. Please contact the Sam Houston Ranger Station at (936) 344-6205 for combination information. Purchasers should lock the gates behind them while entering or exiting this area.**

**NORMAL OPERATING SEASON:** The normal operating season is as follows:

**Payment Units 1-15: May 1 thru November 30**

Unless otherwise agreed, operations will not be permitted outside the normal operating season.

**RELEASE OF PAYMENT UNITS FOR CUTTING:** Purchaser must get a written release from the Forest Service before entering any Payment Unit. Before a Payment Unit can be accepted as completed, cutting and all other contract obligations must be completed. Unless otherwise agreed, no more than two (2) Payment Units may be operated at one time. Purchaser will be required to open and cut Payment Unit 15 first. After it is cut, purchaser may cut any other units in any order once all Specified Road work to access them has been completed.

**EQUIPMENT CLEANING:** Prior to moving Off-Road equipment onto the Sale Area, Purchaser shall inform the Forest Service of the most recent area of equipment use due to the presence of invasive species (Cogon Grass) within Jasper County and western Louisiana. If equipment has been used within areas containing Cogon Grass or other invasive species of concern, cleaning of Off-Road equipment will be required prior to moving on the Sale Area.

Off-Road equipment includes all logging and construction equipment, **EXCEPT** for log trucks, chip vans, service vehicles, water trucks, pickup trucks, cars and similar vehicles. **See contract provision BT6.35 for additional information.**

**USE OF ROADS:** Trucks used in hauling timber from this sale over roads under Forest Service jurisdiction are subject to State and County load, weight, length, height and width limitations. Any exceptions to these limitations are posted by individual road or road segment. Prospective bidders are urged to check out any questions on the haul route with the District Ranger before submitting bids.

**ROAD MAINTENANCE:** Road maintenance requirements are estimated for a proposed haul route. Any change from the proposed haul route may necessitate a change in the roads to be maintained or in the amount of required deposit for road maintenance. The estimated cost of the road maintenance deposit has been allowed for in the appraisal. See sample contract provision CT5.31, Road Maintenance Requirements. The Purchaser shall maintain the road surface, drainage dips and ditches to assure adequate drainage.

**TEMPORARY ROADS:** The location and clearing widths of all temporary roads and landings shall be approved by the Forest Service before construction or use is started. The estimated quantity of timber in this sale does not include timber within the clearing limits of Temporary Roads. Any additional timber requiring removal will be designated by the Forest Service and paid for at contract rates prior to cutting.

The Purchaser will install and remove culverts on temporary roads where required for logging access. The Forest Service estimates one (1) 18" culvert will be required to be used at multiple locations.

Purchaser shall maintain all erosion control and water diversion structures such as waterbars and broad-based dips in a functional condition during operations. Purchaser shall reshape road surface and close all Temporary Roads prior to prolonged periods of non-use or when use is completed. Outside berms shall be removed by pulling the material back onto the road surface. Prior to final road closure, unless otherwise agreed, the road surface shall be ripped or scarified to reduce runoff and aid in revegetation.

**EROSION CONTROL:** Purchaser will install waterbars as logging in a payment unit and use of roads is completed. At that time, temporary and skid roads will be bladed to pull outside berms, reshape road surface to assure adequate surface drainage, construct waterbars where designated, and install barricades to block temporary roads to normal vehicular traffic where designated.

**The Forest Service will not agree to perform the waterbarring and road blocking work for the purchaser.**

The purchaser shall also install temporary waterbars if logging operations are stopped for prolonged periods prior to completing a payment unit. The Forest Service will not perform such temporary waterbarring work.

Where waterbars or similar measures alone won't provide satisfactory erosion control, purchaser shall vegetate areas where soil disturbance will result in soil losses from erosion. Areas specified by the Forest Service will be fertilized with 300 pounds of 13-13-13 commercial fertilizer (or equivalent) per acre and seeded in accordance with the sample contract provision CT6.601 specifications.

**The Forest Service will not agree to perform to perform the seeding and fertilizing work.**

**SLASH DISPOSAL:** Purchaser will be required to remove all logging slash and other debris resulting from logging operations off road surfaces, shoulders, draining ditches, and out of protected stream courses shown on the Sale Area Map.

Where Payment Units 2, 3, 4, 5, 12, and 13 are adjacent to the Lone Star Hiking Trail (LSHT), lopping and scattering of slash will be required to within 2 feet of the ground within 50 feet of the Unit Boundary closest to the LSHT.

See contract Special Provision CT6.7 for additional information.

**DIRECTIONAL FELLING:** In areas shown on Sale Area Map, Purchaser shall fell trees away from the LSHT, improvements, roads, and protected streamcourses unless otherwise agreed.

**PROTECTION OF STREAMCOURSES:** Culverts or temporary bridges will be required where temporary and skid roads cross protected streamcourses shown on Sale Area Map, unless otherwise agreed. The location of these crossings shall be approved in advance by the Forest Service. Purchaser shall furnish and install such culverts or temporary bridges and shall remove them upon completion of operations.

Unless otherwise agreed, all vehicles are prohibited outside the marked Payment unit boundaries along either side of protected streamcourses except as necessary to construct or remove stream crossing structures.

**PROTECTION OF IMPROVEMENTS:** The following improvements are located within or adjacent to the sale area:

- Lone Star Hiking Trail (LSHT)
- Landline markers or trees, Survey monuments, and associated witness trees.
- Gas wellhead and associated facilities at the end of NFSR 213 A
- Existing Forest Service gates on NFSRs 213, 213 A, 2012, 2113, and 206 A.
- Existing, constructed, and reconstructed culverts and other structures on or along NFSRs 213, 213 A, 2012, 2113, and 206 A.

Purchaser shall protect these improvements during operations and shall be responsible for prompt repair of any damage caused to them. Operations shall not begin until all necessary arrangements to protect these improvements and prevent damage have been made. Purchaser shall contact utility companies in advance of constructing crossings to ensure necessary arrangements to protect improvements.

**THREATENED, ENDANGERED, OR SENSITIVE SPECIES HABITAT INFORMATION:** This sale has no known Red Cockaded Woodpecker (RCW) clusters. If during logging operations, a new cavity tree is found or RCW activity is observed, logging operations in the adjacent area shall cease and the Forest Service shall be notified.

**PRE-WORK CONFERENCE:** A pre-work conference will be held with the designated representatives before Purchaser begins operations. The purpose of the conference is to ensure all designated representatives have a clear understanding of the contract requirements and obligations. The time and place for conference will be arranged by Forest Service.